

## WHAT IS CLAIMED IS:

1. A self-cleaning surface structure comprising a coating mixture covered on the surface of a product, said coating mixture comprising a polymeric resin and a  
5 nanometered metal oxide compound, said polymeric resin serving as a medium to bond said nanometered metal oxide to the surface of said product.
2. The self-cleaning surface structure as claimed in claim 1, wherein said product is a ceramic member.
3. The self-cleaning surface structure as claimed in claim 1, wherein said  
10 product is a glass member.
4. The self-cleaning surface structure as claimed in claim 1, wherein said product is a metal member.
5. The self-cleaning surface structure as claimed in claim 1, wherein said product is a plastic member.
- 15 6. A self-cleaning surface structure comprising a coating mixture covered on the surface of a product through a heat treatment, said coating mixture comprising a nanometered powder and a nanometered metal oxide compound.
7. The self-cleaning surface structure as claimed in claim 6, wherein said product is a ceramic member.
- 20 8. The self-cleaning surface structure as claimed in claim 6, wherein said product is a glass member.
9. The self-cleaning surface structure as claimed in claim 6, wherein said product is a metal member.
10. The self-cleaning surface structure as claimed in claim 6, wherein said  
25 product is a plastic member.

11. The self-cleaning surface structure as claimed in claim 6, wherein said nanometered power is zinc oxide.

12. The self-cleaning surface structure as claimed in claim 6, wherein said nanometered power is titanium dioxide.